

CLAIMS

1. A fluid dispenser device, comprising:
 - a chamber (15, 15') provided with an inlet valve (2, 112) and with an outlet valve (67, 76), and defining
 - 5 a sealed slide cylinder (14);
 - a piston (6) disposed inside the chamber and including a lip (61) capable of sliding in sealed manner in said slide cylinder (14);
 - an actuator rod (7) on which the piston (6) is
 - 10 slidably mounted;
 - a bearing flange (42) for coming to bear against a reservoir neck; and
 - a ferrule (5) against which the piston (6) is resiliently urged in the rest position;
 - 15 said device being characterized in that the sealed slide cylinder (14) is situated above the bearing flange (42), so that it cannot be inserted into a reservoir neck.
2. A fluid dispenser device according to claim 1, in
- 20 which the slide cylinder (14) defines a bottom abutment end (13) situated substantially at the bearing flange.
3. A fluid dispenser device according to claim 1 or claim
- 25 2, in which the piston (6) is provided with guide means (63, 65) for holding it on the axis inside the chamber.
4. A fluid dispenser device according to claim 3, in
- which the guide means include a top guide sleeve (65) engaged in a through hole formed by the ferrule (5).
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5. A fluid dispenser device according to any preceding claim, in which said rod is not in contact with the ferrule.
- 35 6. A fluid dispenser device according to claim 4, in
- which the top sleeve (65) surrounds the actuator rod (7).

7. A fluid dispenser device according to claim 3 or claim 4, in which the guide means include a bottom guide sleeve (63) engaged in a bushing (3) defining a bottom portion (15') of the chamber.

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8. A fluid dispenser device according to claim 7, in which the bushing (3) defines a bottom end (32) serving as an abutment for the inlet valve (2) in the open position.

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9. A fluid dispenser device according to claim 5, in which a precompression spring (82), situated outside the chamber, bears between the rod (7) and the piston (6) so as to urge the outlet valve (67, 76) into the closed position.

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10. A fluid dispenser device according to claim 5, in which a return spring (81), situated outside the chamber, bears between the rod (7) and the ferrule (5) so as to urge the piston (6) into the rest position.

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11. A fluid dispenser device according to any preceding claim, in which the slide cylinder (14) is formed by a body, the bearing flange (42) being formed by a ring (4) engaged around the body (1).

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12. A fluid dispenser device according to any preceding claim, in which the chamber defines a top portion (15) situated above the bearing flange, and a bottom portion (15') situated below the flange, the slide cylinder (14) being situated at the top portion (15).

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13. A fluid dispenser device according to any preceding claim, including a pushbutton (9) forming a fastener sleeve (92), the actuator rod (7) defining a housing (749), the sleeve being engaged in the housing.

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14. A fluid dispenser device according to any preceding claim, including a vent passage (154) that is closed in the rest position by a cone-shaped sealing contact.